



**POSITION:** Research Scientist, Nanomaterials for Biology

**JOB ID:** 63716

**MANAGER:** Sarah Allendorf

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## DEPARTMENT DESCRIPTION

The Materials Physics Department is part of Sandia/California's Biological and Materials Sciences Center. The department conducts a broad and coordinated array of experimental and theoretical research to identify and understand the fundamental physical mechanisms underlying the surface, interface, and transport behavior of a variety of advanced materials. The department's materials physics and chemistry modeling/simulation expertise uses state-of-the-art density functional theory, molecular dynamics simulation techniques, and quantum transport approaches. The department has experimental expertise and resources for ultrahigh-vacuum technology, thin-film preparation, nanomaterials synthesis, and a wide range of advanced materials characterization techniques (e.g., Auger electron spectroscopy, atomic force microscopy, diffuse reflectance spectroscopy, low-energy electron diffraction, low-energy electron microscopy, low-energy ion spectroscopy, secondary ion mass spectrometry, and scanning tunneling microscopy).

## JOB DESCRIPTION

The Materials Physics Department at Sandia National Laboratories in Livermore, California, seeks a staff scientist who will conduct experimental research in the broad area of nanomaterials for biology. The selected candidate will develop a world-class research program to complement the department's existing materials programs in nanoelectronics, nanophotonics, interfacial science, and surface physics. We seek a scientist with the skills and technical background necessary to bridge these programs with the Biological and Materials Sciences Center's programs in biology. Research areas of interest include but are not limited to nanomaterials for biodefense, the toxicity of nanomaterials, and nanomaterials for bioenergy.

## QUALIFICATIONS

This position requires a PhD in materials science, physics, chemistry, biology, or a closely related field, as well as a sustained record of research accomplishments in a postdoctoral or more advanced position. Published evidence of scientific leadership and stature is expected, as is the ability to work in teams and establish strong collaborations, especially with theorists in our department.

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## ABOUT SANDIA

Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match. Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, and three weeks of vacation. In addition, Sandia/California enjoys close proximity to San Francisco, the Silicon Valley, first-tier universities, and diverse cultural and year-round recreational opportunities.

## FOR ADDITIONAL INFORMATION, CONTACT:

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